



AMENDED SEQUENCE LISTING

<110> Wang, Rong-fu
<120> Use of Cell-Penetrating Peptides to Generate Antitumor Immunity
<130> P02373US1/10200806
<140> US 10/077,555
<141> 2002-02-15
<150> US 60/268,687
<151> 2001-02-15
<160> 72
<170> PatentIn version 3.3
<210> 1
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Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro
1 5 10

<210> 2
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<400> 2

Ser Val Tyr Asp Phe Phe Val Trp Leu
1 5

<210> 3
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<400> 3

Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
1 5 10 15

<210> 4
<211> 11
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<213> Human Immunodeficiency Virus

<400> 4

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

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<400> 5

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

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Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg
1 5 10

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<211> 16
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<213> human

<400> 7

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
1 5 10 15

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Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly
1 5 10 15

Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val
20 25

<210> 9
<211> 12
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<213> Hepatitis B virus

<400> 9

Pro Leu Ser Ser Ile Phe Ser Arg Ile Gly Asp Pro
1 5 10

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<400> 10

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Lys Ile Asn Leu Lys
1 5 10 15

Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

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<400> 11

Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
1 5 10 15

Leu Ala

<210> 12
<211> 34
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<213> Herpes simplex virus 1

<400> 12

Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr
1 5 10 15

Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro
20 25 30

Val Glu

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<400> 13

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
1 5 10 15

Lys Lys Arg Lys Val
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<400> 14

Lys Lys Lys Lys Lys Lys Gly Gly Phe Leu Gly Phe Trp Arg Gly Glu
1 5 10 15

Asn Gly Arg Lys Thr Arg Ser Ala Tyr Glu Arg Met Cys Asn Ile Leu
20 25 30

Lys Gly Lys
35

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<400> 15

Glu Val Tyr Asp Gly Arg Glu His Ser Ala
1 5 10

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<400> 16

Arg Glu Pro Val Thr Lys Ala Glu Met Leu
1 5 10

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Glu Ala Asp Ile Pro Ile Gly His Leu Tyr
1 5 10

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Met Glu Val Asp Pro Ile Gly His Leu Tyr
1 5 10

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<400> 19

Gly Val Tyr Asp Gly Arg Glu His Thr Val
1 5 10

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Met Thr Gln Gly Gln His Phe Leu Gln Lys Val
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Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu
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<400> 22

Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
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<400> 23

Glu Ala Ala Gly Ile Gly Ile Leu Thr Val
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<400> 24

Ala Glu Glu Ala Ala Gly Ile Gly Ile Leu
1 5 10

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Ala Glu Glu Ala Ala Gly Ile Gly Ile Leu Thr
1 5 10

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<400> 26

Ala Met Leu Gly Thr His Thr Met Glu Val
1 5 10

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Ser Leu Ala Asp Thr Asn Ser Leu Ala Val
1 5 10

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Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu
1 5 10

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Val Leu Tyr Arg Tyr Gly Ser Phe Ser Val
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Ser Leu Ile Tyr Arg Arg Arg Leu Met Lys
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Val Ser His Ser Phe Pro His Pro Leu Tyr
1 5 10

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<400> 32

Phe Leu Thr Pro Lys Lys Leu Gln Cys Val
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<212> PRT

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<400> 33

Val Ile Ser Asn Asp Val Cys Ala Gln Val
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<210> 34

<211> 10

<212> PRT

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<400> 34

His Ser Thr Asn Gly Val Thr Arg Ile Tyr
1 5 10

<210> 35

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<400> 35

Ser Ser Asp Tyr Val Ile Pro Ile Gly Thr Tyr
1 5 10

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<211> 18

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<400> 36

Ala Phe Leu Arg His Ala Ala Leu Asp Tyr Pro Ser Leu Ser Ala Thr
1 5 10 15

Asp Ile

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<400> 37

Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu
1 5 10

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<400> 38

Tyr Met Ile Met Val Lys Cys Trp Met Ile
1 5 10

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<213> Artificial Sequence

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<400> 39

Val Tyr Asp Tyr Asn Cys His Val Asp Leu
1 5 10

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Ala Cys Asp Pro His Ser Gly His Phe Val
1 5 10

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<400> 41

Val Leu Pro Asp Val Phe Ile Arg Cys Val
1 5 10

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<400> 42

Cys Val Glu Trp Leu Arg Ile Tyr Leu Glu Asn Gly Lys
1 5 10

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<220>
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<400> 43

Tyr Ser Trp Met Asp Ile Ser Cys Trp Ile
1 5 10

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<400> 44

Ser Glu Leu Phe Arg Ser Gly Leu Asp Tyr
1 5 10

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<400> 45

Ser Pro Ser Ser Asn Arg Ile Arg Asn Thr
1 5 10

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<400> 46

Glu Val Ile Ser Cys Lys Leu Ile Lys Arg
1 5 10

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<400> 47

Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His
1 5 10 15

<210> 48
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<220>
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<400> 48

Trp Asn Arg Gln Leu Tyr Pro Glu Trp Thr Glu Ala Gln Arg Leu Asp
1 5 10 15

<210> 49
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<400> 49

Leu Leu Lys Tyr Arg Ala Arg Ile Pro Val Thr Lys Ala Glu
1 5 10

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<400> 50

Thr Ser Tyr Val Lys Val Leu His His Met Val Lys Ile Ser Gly
 1 5 10 15

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<400> 51

Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
 1 5 10

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<400> 52

Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys Ser Leu His Val Gly Thr
 1 5 10 15

Gln Cys Ala Leu Thr Arg Arg
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<210> 53
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<400> 53

Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr
 1 5 10

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<400> 54

Val Leu Leu Lys Glu Phe Thr Val Ser Gly

1 5 10

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<400> 55

Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Asn
1 5 10 15

Gly Ile

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<400> 56

Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
1 5 10 15

Leu Thr

<210> 57
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<220>
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<400> 57

Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln
1 5 10 15

Gln Leu

<210> 58
<211> 15
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<400> 58

Ile Leu Leu Gly Arg Met Ser Leu Phe Met Pro Glu Asp Thr Gly
1 5 10 15

<210> 59

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<400> 59

Ser Leu Phe His Pro Glu Asp Thr Gly Gln Val Phe Gln
1 5 10

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Gln Val Phe Gln Val Ser His Ser Phe Pro His Pro Leu Tyr Asp
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<400> 61

Asn Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Ala Glu Leu Thr
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<400> 62

Lys Lys Leu Gln Cys Val Gln Leu His Val Ile Ser Met
1 5 10

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<400> 63

Gly Val Leu Gln Gly Ile Thr Ser Met Gly Ser Glu Pro Cys Ala
1 5 10 15

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<400> 64

Gln Asn Ile Leu Leu Ser Asn Ala Pro Leu Gly Pro Gln Phe
1 5 10

<210> 65
<211> 15
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<400> 65

Asp Tyr Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp
1 5 10 15

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<400> 66

Ser Tyr Leu Gln Asp Ser Asp Pro Asp Ser Phe Gln Asp
1 5 10

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<211> 21
<212> PRT
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<400> 67

Arg His Arg Pro Leu Gln Glu Val Tyr Pro Glu Ala Asn Ala Pro Ile
1 5 10 15

Gly His Asn Arg Glu
20

<210> 68
<211> 11
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<220>
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<400> 68

Glu Ile Trp Arg Asp Ile Asp Phe Ala His Glu
1 5 10

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<400> 69

Leu Phe Met Asp Thr Leu Ser Phe Val Cys Pro Leu Cys
1 5 10

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<400> 70

Leu Phe Met Asp Ser Leu Asn Phe Val Cys Pro Trp Cys
1 5 10

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<211> 12
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<400> 71

Phe Ser Trp Ala Met Asp Leu Asp Pro Lys Gly Ala
1 5 10

<210> 72
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<400> 72

Gly Glu Leu Ile Gly Ile Leu Asn Ala Ala Lys Val Pro Ala Asp
1 5 10 15